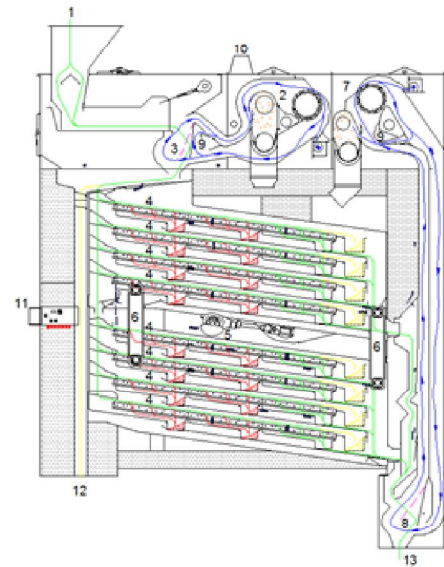


# DELTA COMBI CLEANER 159.1

Cimbria Combi Cleaner type 159.1 has been developed pre-cleaning of Grain, Peas, Maize and rape seed, and Industrial cleaning of grain for milling or malting barley. The machine's large screen area with its accurately matched stroke and frequency is complemented by Cimbria's highly efficient recirculating pre- and after suction system.

1. **Inlet**  
Optimal feeding in the full width of the machine is achieved by a shaker feeder with step-less speed adjustment.
2. **Pre Suction with Air Recirculation**  
A precise adjustable airflow from the systems full width impellor removes dust and fines from the incoming product and discharge it in the screw conveyor outlet and mini cyclone. 800 m<sup>3</sup>/h of air has to go to a central aspiration system or a filter.
3. **Pre suction Air Velocity** can be adjusted to the specific product
4. **Screens**  
(L x W = 800 x 1250 mm) can all be used as sifting or scalping screens. There is one outlet per screen which allows the most efficient flow diagram to be chosen.
5. **Eccentric Drive System for Screen Shoes**  
Is delivered with fixed speed.
6. **Drive-Boss** suspension system for the screen shoes guarantees a well-balanced performance and with its oscillating screen movement results in the sharpest possible separation.
7. **After Suction with Air Recirculation**  
A precise adjustable airflow from the systems full width impellor, removes light particles from the product flow, before it leaves the machine. The lights are lifted to the screw conveyor outlet and mini cyclone. 800 m<sup>3</sup>/h of air has to go to a central aspiration system or a filter.
8. **After suction Air Velocity** can be adjusted to the specific product
9. **Adjustment** of air volume for pre- and after suction.
10. **Central Aspiration connection** for negative pressure inside the machine: 2.000 m<sup>3</sup>/h.
11. **Control Panel**  
Remote control of integral motor for shaker feeder, pre suction, after suction and air velocity. The control panel is prepared for connection to PLC and Scada system.
12. **Outlet Coarse impurities**
13. **Outlet Clean product**



<b>Pre cleaning capacity:</b> (max. 20 % mc.) may vary depending on specific conditions & impurities	
Wheat, barley, rye, sorghum	200 t/h
Peas, maize, soya bean	180 t/h
Wheat: (max. 15 % mc.)	250 t/h
<b>Industrial cleaning capacity:</b> (max 15 % mc.) may vary on specific demands and conditions	
Wheat, maize, barley, soya, rye, sorghum	160 t/h
Rape seed	80 t/h
Paddy rice	40 t/h
Peas	100 t/h
Malting Barley, white rice	45 t/h
<b>Dimensions:</b>	
Machine total height (incl. inlet hopper)	5.085 mm
Machine height	4.550 mm
Machine length	4.315 mm
Machine width	2.420 mm
Screen area	24 m <sup>2</sup>
Square outlet Q-pipes	200 x 200 & 240 x 240 mm
<b>Motors: (standard)</b>	
Shaker feeder (variable speed)	1.5 kW
Pre suction fan	3.0 kW
After suction fan	4.0 kW
Screen shoes	3.0 kW
<b>Air volume:</b>	
Internal air volume (pre- and after suction)	16.000 m <sup>3</sup> /h
External suction (60 mm WG)	3.600 m <sup>3</sup> /h
<b>Total weight of the cleaner:</b>	
Freight volume	75 m <sup>3</sup>
Dynamic loading at PH= +/- 1420 N, PV= +/- 7575 N, 10 N = 1 kg	4.6 - 4.8 Hz:

The technical data may vary because of redevelopment or another combination of the machine.